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NOTICE OF ALLOWANCE AND FEE(S) DUE

29683

7590

01/04/2010

HARRINGTON & SMITH, PC 4 RESEARCH DRIVE, Suite 202 SHELTON, CT 06484-6212 EXAMINER
HUSSAIN, TAUQIR
ART UNIT PAPER NUMBER

2452 DATE MAILED: 01/04/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/770.881	02/03/2004	Haihong Zheng	873.0140.U1(US)	1059

TITLE OF INVENTION: METHOD AND APPARATUS PROVIDING ADDRESS MANAGEMENT IN A FLAT STRUCTURE MOBILE NETWORK

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	04/05/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

maintenance fee notifica	correspondence including debelow or directed oth tions. ENCE ADDRESS (Note: Use Bloomers)		Not Fee	on of maintenance fees will be mailed to the current correspondence add correspondence address; and/or (b) indicating a separate "FEE ADDRES Note: A certificate of mailing can only be used for domestic mailings Fee(s) Transmittal. This certificate cannot be used for any other accomp papers. Each additional paper, such as an assignment or formal drawing have its own certificate of mailing or transmission.			
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						(Depositor's name)	
			<u> </u>			(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATT	ORNEY DOCKET NO.	CONFIRMATION NO.	
10/770,881	02/03/2004		Haihong Zheng	:	873.0140.U1(US)	1059	
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HUSSAIN	, TAUQIR	2452	709-245000				
CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
PLEASE NOTE: Unl recordation as set fort (A) NAME OF ASSIG	less an assignee is identi h in 37 CFR 3.11. Comp GNEE	ified below, no assignee oletion of this form is NC	OT a substitute for filing an (B) RESIDENCE: (CITY)	atent. If an assignee is assignment. 7 and STATE OR COUN	TRY)	ocument has been filed for	
Please check the appropr	iate assignee category or	categories (will not be p	rinted on the patent):	Individual 🖵 Corpora	tion or other private gro	up entity Government	
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
**	s SMALL ENTITY statu	is. See 37 CFR 1.27.	b. Applicant is no lon				
interest as shown by the	a Fublication Fee (if requestreted Sta	tes Patent and Trademarl	k Office.	ne applicant; a registered	auorney or agent; or th	e assignee or other party in	
Authorized Signature				Date			
Typed or printed name				-			
This collection of inform an application. Confiden- submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this but 7 riginia 22313-1450. DC	FR 1.311. The informati U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the ONOT SEND FEES OR	on is required to obtain or a 1.14. This collection is est y depending upon the individence Chief Information Office COMPLETED FORMS TO	retain a benefit by the putimated to take 12 minut vidual case. Any comme er, U.S. Patent and Trade O THIS ADDRESS. SEN	blic which is to file (and es to complete, includin nts on the amount of tir mark Office, U.S. Depa ND TO: Commissioner f	by the USPTO to process) g gathering, preparing, and me you require to complete utment of Commerce, P.O. For Patents, P.O. Box 1450,	

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HARRINGTON	& SMITH, PC	HUSSAIN, TAUQIR			
4 RESEARCH DRIVE, Suite 202 SHELTON, CT 06484-6212			ART UNIT PAPER NUMBER		
			2452		
		DATE MAILED: 01/04/2010			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 940 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 940 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No	0.	Applicant(s)				
	10/770,881		ZHENG ET AL.				
Notice of Allowability	Examiner		Art Unit				
		PAINI	2452				
	TAUQIR HUSS	AIN	2452				
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) or other appropr IGHTS. This app	CLOSED in this appriate communication olication is subject to	olication. If not include will be mailed in due	led course. THIS			
1. This communication is responsive to <u>12/07/2009</u> .							
2. X The allowed claim(s) is/are 1, 3, 5, 7 and 10 which are ren	<u>umbered as 1-5</u> .						
 3. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 	e been received.	.,,,,,,					
2. Certified copies of the priority documents have		· · · —					
3. Copies of the certified copies of the priority do	cuments have be	en received in this n	national stage applica	ation from the			
International Bureau (PCT Rule 17.2(a)).							
* Certified copies not received:							
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.			complying with the re	equirements			
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give				NOTICE OF			
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.						
(a) \square including changes required by the Notice of Draftspers	on's Patent Drav	wing Review (PTO-9	948) attached				
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date							
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date						
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t				e back) of			
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT				Note the			
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 □	Notice of Informal Pa	atent Application				
Notice of Preferences Great (FTG-932) Notice of Draftperson's Patent Drawing Review (PTG-948)		Interview Summary (
		Paper No./Mail Date	ė				
3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>03/16/2009</u>	7. ∐	Examiner's Amendm	nent/Comment				
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛	Examiner's Stateme	nt of Reasons for All	owance			
or biological material	9. 🔲	Other					
/HT/	/THL	J NGUYEN/					
Patent Examiner, Art Unit 2452	Supe	rvisory Patent Exa	miner, Art Unit 245	52			

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Art Unit: 2452

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/07/2009 has been entered.

Response to Amendment

2. This office action is in response to amendment /reconsideration filed on 12/07/2009, the amendment/reconsideration has been considered. Claims 1, 3, 5, 7 and 10 have been amended, claims 2, 4, 6, 8, 9 and 11-33 have been canceled. Claims 1, 3, 5, 7 and 10 are pending for examination, the rejection cited as stated below.

Response to Arguments

3. Applicant's arguments/amendments, see claims/remarks, filed 12/07/2009, with respect to claims 1, 3, 5, 7 and 10 have been fully considered and are persuasive.

Therefore, the previous rejection has been withdrawn.

Allowable Subject Matter

- 4. The following is a statement of reasons for the indication of allowable subject matter:
 - Claims 1, 3, 5, 7 and 10 are allowed.

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Art Unit: 2452

Prior art individually or in combination fails to teach, among other things the combination of "based on the first neighbor advertisement, constructing a first neighbor cache in the MR that associates the CoA with the LLA; sending a second neighbor advertisement from the MR to the AN on behalf of the MNN, the second neighbor advertisement comprising a mapping between the CoA of the MNN and a LLA of the MR (LLA MR); based on the second neighbor advertisement, constructing a second neighbor cache in the AR that associates the CoA with the LLA MR" and in response to an arrival at the AR of a downlink packet having a CoA in an IP layer destination address field, checking, by the AR, the second neighbor cache using the CoA to obtain the associated LLA MR of the MR; transmitting the packet from the AR to the MR using the LLA MR in a link layer destination address field; in response to the arrival at the MR of the packet, checking, by the MR, the first neighbor cache using the CoA in the IP layer destination address field to obtain the associated LLA of the MNN; and transmitting the packet from the MR to the MNN using the obtained LLA in the link layer destination address field".

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These limitations, in conjunction with the other limitations in the independent claims 1, 5, 7 and 10 are not specifically disclosed or remotely suggested in the prior art of the record or the cited references.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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Art Unit: 2452

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TAUQIR HUSSAIN whose telephone number is (571)270-1247. The examiner can normally be reached on 7:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thu Nguyen can be reached on 571 272 6967. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/T. H./ Examiner, Art Unit 2452

/THU NGUYEN/ Supervisory Patent Examiner, Art Unit 2452